

FIG. 1

FIG. 2 is a schematic diagram of a computer screen displaying a medical history form. The form is divided into several sections. At the top, there is a header area containing patient information and a run number. Below this, there are several tabs or buttons for navigating between different sections of the form. The main area of the form is divided into two columns. The left column contains a list of medical problems, with the first problem, 'Abdominal Flank Pain', highlighted. To the right of this list, there are three buttons labeled '+', 'X', and '-', which are used to add, delete, or modify problems. The right column contains a form for entering details about the selected problem, including a text area for the problem description, a section for 'Problem began/occurred' with radio buttons for 'Minutes', 'Hours', 'Days', 'Weeks', 'Months', 'Years', and 'Unknown ago', and a section for 'Intent' with radio buttons for 'Accidental', 'Self harm', 'Recreational', 'Harm by other(s)', 'Unknown', and 'N/A'. At the bottom, there are sections for 'History reported by' (with checkboxes for Bystander, Family, Healthcare provider) and 'Injury related' (with radio buttons for No, Yes). The form is labeled with reference numerals 250, 260, and 200a.

ABC 123 Patient = Smith, John F. Run #: 4-97866743 2/12/00 - 8:20:42 PM

Main Crew Call Patient Billing PMH Pt. Meds Problems

Exam Vitals Treatment Disposition Review Notes Protocols Help

Problem list

Abdominal Flank Pain
Abuse / Neglect
Airway Obstruction
Allergic Reaction
Altered Mental/Neurological
Amputation
Assault
Back Pain
Behavioral Problem

Primary
+ 241
X 242
- 243

Patient's problem(s)

Abdominal Flank Pain

Problem began/occurred

20 ☒ Minutes ☐ Hours ☐ Days ☐ Weeks ☐ Months ☐ Years ☐ Unknown ago

Intent

☐ Accidental ☐ Self harm ☐ Recreational ☐ Harm by other(s) ☐ Unknown ☒ N/A

History reported by

☐ Bystander ☒ Patient
☐ Family ☐ Police
☐ Healthcare provider ☐ Other

Injury related

☒ No ☐ Yes

Activity at onset

Eating

FIG. 2

Patient = Smith, John F.		Run #: 4-97866743	2/12/00 - 6:56:37 PM
ABC [123]	Main	Crew	Vitals
Exam	Treatment	Disposition	Review
Call	Patient	Billing	PMH
Problems	Pt. Meds	Protocols	Help

History of Present Problem

<p>Pain</p> <input type="checkbox"/> Primary pain [dropdown] <input type="checkbox"/> Radiated pain <p>General</p> <input type="checkbox"/> Bleeding <input type="checkbox"/> Congested/ plugged <input type="checkbox"/> Discharge/ drainage [dropdown] <input type="checkbox"/> Foreign body/ substance [dropdown]	<p>Wound</p> <input type="checkbox"/> Abrasion/ scratch <input type="checkbox"/> Amputation <input type="checkbox"/> Bite/ sting <input type="checkbox"/> Burn <input type="checkbox"/> Crush <input type="checkbox"/> Cut/ laceration <input type="checkbox"/> Frostbite <input type="checkbox"/> Puncture <p>Musculoskeletal</p> <input type="checkbox"/> Deformity <input type="checkbox"/> Dislocated <input type="checkbox"/> Fractured/ broken
<p>Skin</p> <input type="checkbox"/> Blisters <input type="checkbox"/> Bruising <input type="checkbox"/> Cool/ cold <input type="checkbox"/> Discoloration <input type="checkbox"/> Dryness <input type="checkbox"/> Hives <input type="checkbox"/> Itching <input type="checkbox"/> Rash <input type="checkbox"/> Redness <input type="checkbox"/> Sore/ lesion <input type="checkbox"/> Warmth	<p>Complaint location(s)</p> <div style="border: 1px solid black; padding: 5px;"> Body [diagram] </div>

Body

Neurological

☐ Numbness/ tingling
☐ Paralysis
☐ Shaking/ seizing
☒ Weakness

FIG. 3

ABC

123

Patient = Smith, John F.

Run #: 4-97866743

2/12/00 - 7:04:06 PM

Main

Crew

Call

Patient

Billing

PMH

Pt. Meds

Problems

Exam

Vitals

Treatment

Disposition

Review

Notes

Protocols

Help

History of Present Problem (Seizures)

Number of seizures

☒ 1 Seizure

Duration

☒ < 30 minutes
 ☐ ≥ 30 minutes

☐ > 1 Seizure
 Awake between seizures

☐ No
 ☐ Yes

☐ Unknown

Type of seizure

☐ Motionless stare
 ☐ Repetitive phrases / actions (lip smacking, picking)
 ☐ Sudden loss of muscle tone (drop attack)
 ☐ Localized twitching / jerking / shaking
 ☒ Generalized twitching / jerking / shaking
 ☐ Unknown

Aura

☐ Smell
 ☐ Taste
 ☐ Visual
 ☐ Auditory
 ☐ Tactile sensation
 ☐ Other

FIG. 5

200b

FIG. 6

FIG. 7

FIG. 7

FIG. 8 is a schematic diagram of a computer screen displaying a form for recording ambulance call data. The form is organized into several sections: a top navigation bar, a main data entry area, and a bottom summary area. The top navigation bar includes buttons for 'Main', 'Exam', 'Crew', 'Vitals', 'Treatment', 'Disposition', 'Review', 'Billing', 'Patient', 'Call', 'PMH', 'Meds', 'Complaint', 'Notes', 'Protocols', and 'Help'. The main data entry area contains fields for 'Call Date' (2/11/2000), 'Run #' (4-97856743), 'Agency' (Acme Ambulance Service), 'Vehicle ID' (567), 'Vehicle type' (Ambulance), 'Call Location' (1357 Lake Shore Blvd.), 'Location Type' (Home / residence), 'Location Code' (Boston - (1421)), 'Dispatch Info' (Unresponsive male - diabetic related), 'Call Type' (Scene call - emergency), 'Response to scene' (Lights and sirens), and 'Barrier to pt. contact' (None). The bottom summary area includes 'Transferring Vehicle ID', 'Previous PCR' (None), and 'Patient Transfer' (None). A 'Call Times' section on the right lists various time points: 'Call Rec'd' (10:20), 'Enroute' (10:21), 'At Scene' (10:25), 'Pt. Contact' (10:26), 'From Scene' (10:53), 'At Destin' (11:03), 'From Destin' (), 'In Service' (), and 'In Quarters' (). A 'Mileage' section at the bottom right shows 'Begin' (1034.5), 'End' (1040.2), and 'Total' (5.7). The form is labeled with reference numerals 300, 310, and 330.

ABC 123

2/11/00 - 11:15:41 AM

MainExamCrewVitalsTreatmentDispositionReviewBillingPatientCallPMHMedsComplaintNotesProtocolsHelp

300

310

330

Call Date2/11/2000Run #4-97856743

AgencyAcme Ambulance Service

Vehicle ID567Vehicle typeAmbulance

Call Location1357 Lake Shore Blvd.

Location TypeHome / residence

Location CodeBoston - (1421)

Dispatch InfoUnresponsive male - diabetic related

Call TypeScene call - emergency

Response to sceneLights and sirens

Barrier to pt. contactNone

Patient Transfer

Transferring Vehicle ID

Previous PCRNoneNoneUnknownNumber

Call Times

Call Rec'd10:20

Enroute10:21

At Scene10:25

Pt. Contact10:26

From Scene10:53

At Destin11:03

From Destin

In Service

In Quarters

Mileage

Begin1034.5

End1040.2

Total5.7

FIG. 8

	312	316	314	
Call Times				
Call Rec'd	10:20	▲ ▼	🕒	310
Enroute	10:21	▲ ▼	🕒	
At Scene	10:25	▲ ▼	🕒	
Pt. Contact	10:26	▲ ▼	🕒	312a, 314a, 316a
From Scene	10:53	▲ ▼	🕒	
At Destin	11:03	▲ ▼	🕒	
From Destin		▲ ▼	🕒	
In Service		▲ ▼	🕒	
In Quarters		▲ ▼	🕒	

FIG. 8a

ABC

123

Patient = Smith, John F.

Run #: 4-97856743

2/11/00 - 11:09:01 AM

Airway

Oxygenation

CPR / Defibrillation

IV / Fluids

Medications

Immobilization

Injury Care

Exit Treatment

Airway Management

Airway opened

☒ Head tilt
☐ Jaw thrust
☐ Chin lift

11:04

▲▼

🕒

Airway cleared

☐ Abdominal thrusts
☐ Chest thrusts
☐ Back blows
☒ Suction
☐ Magill forceps

▲▼

🕒

Needle chest decompression

☐ Right thorax
☐ No air rush
☐ Air rush
☐ Left thorax
☐ No air rush
☐ Air rush

▲▼

🕒

Airway adjuncts

☒ Oral airway
 Size

105 mm

▼

11:04

▲▼

🕒

☐ Nasal airway
 Size

▼

▲▼

🕒

☐ EOA / EGTA
 Size

▼

▲▼

🕒

☐ Needle jet ventilation
 Size

▼

▲▼

🕒

☒ Intubation
 Size

Oral

▼

11:06

▲▼

🕒

☐ Intubation
 Size

8.5 mm

▼

▲▼

🕒

attempts
☒ 1
☐ 2
☐ 3
☐ 4

Successful
☐ No
☒ Yes

By EMT

Mike Sullivan

Tube placement confirmed with
☒ EDD
☒ Auscultation
☐ ETCO2

☐ EDD
☒ Auscultation
☐ ETCO2

FIG. 9

FIG. 10 is a schematic diagram of a medical device interface, showing a patient information screen with various data fields and controls.

500

510

522

534

532

516 515

522

FIG. 10

ABC 123 Patient = Smith, John F. Run #: 4-97866743 2/11/00 - 10:47:30 AM

Main Crew Call Patient Billing PMH Meds Complaint

Exam Vitals Treatment Disposition Review Notes Protocols Help

Time	Pulse	Respirations	BP	GCS	Cups
10:47	88 Reg.	18 Easy	122/78	15	Stable
10:35	80 Reg.	16 Easy	118/76	12	Potentially Unstable

Time 10:47

Pulse Rate 88 Quality Normal Reg ☒ Irreg ☐

BP 122/78

Respirations Rate 18 Quality Easy

EKG Rhythm Normal sinus rhythm Ectopy

Pupils Left Right

Size Normal Normal

Appearance Round Round

Reactivity Normal Normal

CUPS ☒ Stable ☐ Pot. unstable ☐ Unstable ☐ Critical

Glucose 88

SaO2 99

ETCO2

Skin Color Normal

Temperature Warm

Cap. Refill <= 2 Seconds

Condition Normal

GCS Verbal Oriented

Motor Obeys Commands

Eye Opening Spontaneous

GCS Score 15

516 515

FIG. 11 is a schematic diagram of a computer system 100 for processing medical data. The system 100 includes a processor 110, a memory 120, and a database 130. The processor 110 is connected to the memory 120 and the database 130. The memory 120 stores data and instructions for the processor 110. The database 130 stores medical data. The system 100 is configured to process medical data and generate reports.

ABC

123

Patient = Smith, John F.

Run #: 4-97856743

3/11/00 - 8:19:18 AM

Main

Crew

Call

Patient

Billing

PMH

Pt. Meds

Problems

Exam

Vitals

Treatment

Disposition

Review

Notes

Protocols

Help

Primary Insurance

Secondary Insurance

No Fault

Company

Policy #

Group #

Insured's Name

Relationship to Insured

Insured

No

Yes

Worker's Comp

No

Yes

Medicare & Medicaid

Medicare #

Medicaid #

Reason For Tx

Pt's Signature

Employer Information

Employer

Address

State

Zip Code

Renal Failure-Uremia-Acute - (584.9)

Respiratory Distress,Acute - (799.1)

Respiratory Infection - (519.8)

Retinal Detachment - (361.9)

Seizure Disorder - (780.3)

Sepsis (Blood Poisoning) - (038.9)

Shock - (785.50)

Shock Septic - (785.59)

FIG. 11

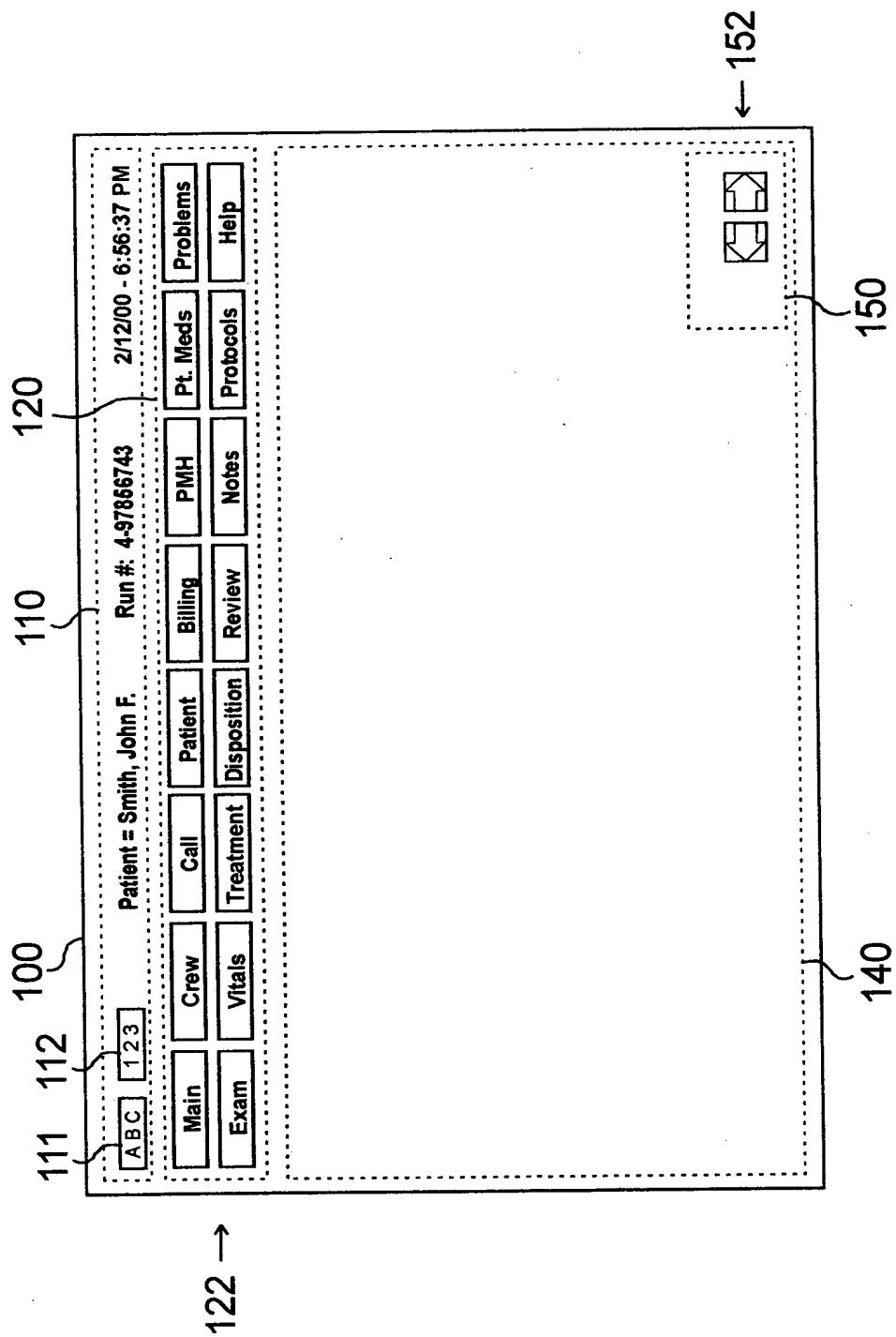


FIG. 12